

Abstract

A printhead for an inkjet printer having geometric features which reduce drop placement error of main and satellite drops ejected from the nozzles of the printhead.

5 Nozzles that are tilted along an axis corresponding to the direction of scanning of the printhead while printing have reduced drop placement error in the orthogonal direction to the scanning, and create a breakoff velocity for the satellite drop that can cause the main and satellite drops to be placed in a coincident location on the medium in one of the directions of scanning, thus forming desireable round printed spots and reducing drop

10 placement error in the scan direction. These improvements can be repeatably achieved for all nozzles. Nozzles with non-circular and asymmetric bores also reduce drop placement errors, particularly when these types of nozzles are also tilted.